

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 Claim 1 (original): A data transmission processing apparatus for processing a plurality of data in parallel
2 and synchronously carrying out a transmission processing comprising:

3 a plurality of processing systems which independently process the data, and a plurality of
4 processing system groups having a set of any of the processing systems which is operated at a common
5 time in the processing systems;

6 a counting unit which counts a plurality of common times corresponding to the respective
7 processing system groups;

8 a time supply unit which supplies the common time obtained by the counting of the counting unit
9 to all of the processing systems belonging to the corresponding processing system group; and

10 a counting control unit which starts to count the common time corresponding to one of the
11 processing system groups by the counting unit when receiving transmission processing preparation
12 completion notices from all of the processing systems belonging to the same processing system group.

1 Claim 2 (original): The data transmission processing apparatus as set forth in claim 1, wherein the case
2 that a transmission processing preparation uncompleted processing system which has not received the
3 transmission processing preparation completion notice is present in the processing systems, the counting
4 control unit starts the counting of the common time corresponding to the processing system group
5 including one of the processing systems completing a transmission processing preparation by the
6 counting unit when receiving a notice that data stored in a data holding region reach a predetermined
7 constant amount from the same processing system upon receipt of the transmission processing
8 preparation completion notice.

1 Claim 3 (original): The data transmission processing apparatus as set forth in claim 1, wherein the
2 counting control unit starts the counting of the common time corresponding to the processing system
3 group to be an object by the counting unit when the counting control unit does not receive any notice
4 from all of the processing systems for a predetermined period of time in the case that a processing
5 system completing a transmission processing preparation upon receipt of the transmission processing
6 preparation completion notice is present and a transmission processing preparation uncompleted
7 processing system which has not received the transmission processing preparation completion notice is
8 present.

1 Claim 4 (original): The data transmission processing apparatus as set forth in claim 1, wherein the
2 counting control unit stops the counting of the common time to be an object by the counting unit when
3 the counting control unit receives a transmission processing disable notice from any one of the processing
4 systems during a transmission processing while the time supply unit supplies the common time to the
5 respective processing systems; and

6 wherein the counting control unit restarts the counting of the common time to be the object by
7 the counting unit when the counting control unit receives a transmission processing enable notice from
8 the same processing system again while the time supply unit supplies the common time to the respective
9 processing systems.

1 Claim 5 (currently amended): The data transmission processing apparatus as set forth in ~~any one of~~
2 ~~claims 1 to 4~~ claim 1, wherein a data processing in the processing system is a transmission processing
3 for reproducing the data.

1 Claim 6 (currently amended): The data transmission processing apparatus as set forth in ~~any one of~~
2 ~~claims 1 to 4~~ claim 1, wherein a data processing in the processing system is a transmission processing
3 for recording the data.

1 Claim 7 (original): A data transmission processing program for causing each function of all or a part of
2 components of the data transmission processing apparatus according to any one of claims 1 to 6 to be
3 executed by a computer.